

U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION II

Emergency and Remedial Response Division 290 Broadway, 18th Floor New York, New York 10007-1866

MEMORANDUM

FROM: Lorenzo Thantu, Remedial Project Manager

Eastern New York Remediation Section

TO: File

DATE: May 31, 2016

RE: Removal Lower Parcel C Soil Excavation Capital Cost Estimate

On March 28 – 31, 2016, EPA Removal Program conducted sampling delineation of the Lower Parcel C. Sampling areas were based on 30 x 30 feet grids (900 square feet) at 6 inch increments every 1 foot (i.e., 0-6, 12-18, 24-30, 36-42 48-54, 60-66, and 72-78 feet) for an estimated total of 8 samples per 900 square feet (**see figure attached**). Samples were collected down to groundwater which is estimated at 5 - 7 feet below ground surface (estimated from past test pits and nearby monitoring well).

Based on the March 28 – 31, 2016 sampling event, an estimated 8,500 cubic yards of contaminated soil exceeding the 175 milligrams/kilogram (mg/kg) level for arsenic and 660 mg/kg level for lead, is expected to be accessible and feasible for excavation and disposal off-site. (The 175 mg/kg arsenic and 660 mg/kg lead represent Site-specific impact-to-groundwater (IGW) cleanup levels, developed by EPA and the New York State Department of Environmental Conservation, that, if achieved, will be protective of groundwater, and will further improve the groundwater quality and potentially result in achieving the drinking water standard for arsenic and lead.)

Total estimated capital cost of the Lower Parcel C soil excavation is \$2.5 million over a 12-week duration utilizing Emergency and Rapid Response Services and Removal Support Team contract vehicles. Details of the \$2.5 million capital cost estimate are provided in a table below.

Soil Excavation, Stockpile, and Loading for Disposal	\$570,900
Site Materials and Services	\$117,800
Transportation and Disposal of Contaminated Soil	\$968,000
Analytical Services (Clean Fill, Post Excavation, and Disposal Characterization)	\$60,000
Certified Clean Backfill	300,000
Site Plans and Reports	\$70,000
SUB TOTAL	\$2,086,700
Contingencies @ 20%	\$417,340
TOTAL	\$2,504,040



Li Tungsten Site Lower Parcel C Assessment Summary Map

Garvies Point Rd Glen Cove, New York (Nassau County)

Map Date: 3/22/2016 @ 8:59:19 AM

Document Name: 2016-03-21 Li Tungsten Lower C (11x17)

Legend

Proposed End Point Delineation

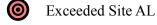
Proposed Assess Area

Proposed Grid Excavation

Former Tank Area

Lower Parcel C Property

Soil Boring Locations (August 2015)



Did Not Exceed Site AL

Test Pit Locations (Dec 15-16, 2015)

Site Grid (30ft x 30 ft)



Coordinate System: NAD 1983 2011 StatePlane New York Long Isl FIPS 3104 Ft US Projection: Lambert Conformal Conic Datum: NAD 1983 2011

False Easting: 984,250,0000 False Northing: 0.0000 Central Meridian: -74,0000 Standard Parallel 1: 40,6667 Standard Parallel 2: 41,0333 Latitude Of Origin: 40,1667 Units: Foot US

Sample Locations Figure

U.S. Environmental Protection Agency, Region 2
Emergency and Remedial Response Division
Removal Action Branch, Edison, New Jersey

